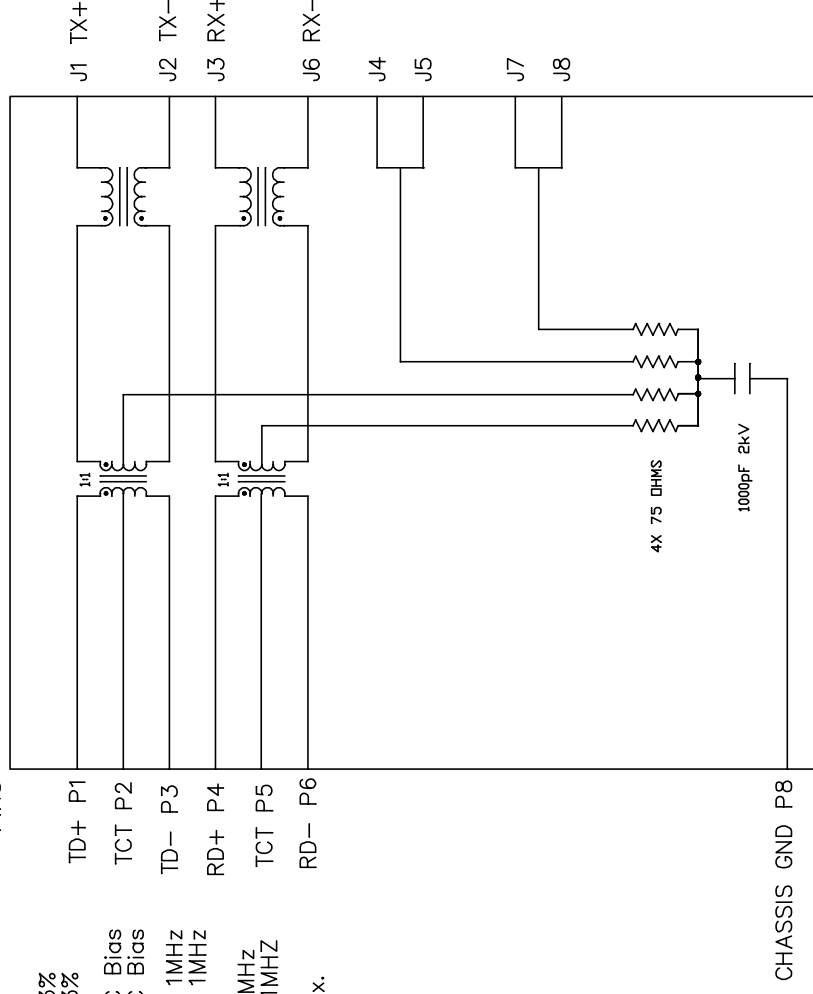


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## ELECTRICAL CHARACTERISTICS @ 25°C



- 1.0 TURNS RATIO: (P4-P5-P6) : (J3-J6)  
(P1-P2-P3) : (J1-J2)  
: 1CT : 1CT  $\pm$  3%  
: 1CT : 1CT  $\pm$  3%
- 2.0 INDUCTANCE: (P4-P6)  
(P1-P3)  
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias  
: 350uH MIN. @ 0.1V, 100KHz, 8mA DC Bias
- 3.0 LEAKAGE INDUCTANCE: P6-P4 (WITH J6 AND J3 SHORT)  
P1-P3 (WITH J2 AND J1 SHORT)  
: 0.3uH MAX. @ 1MHz  
: 0.3uH MAX. @ 1MHz
- 4.0 INTERWINDING CAPACITANCE: (P6,P5,P4) TO (J6,J3)  
(P3,P2,P1) TO (J2,J1)  
: 30pF MAX @ 1MHz  
: 30pF MAX. @ 1MHz
- 5.0 DC RESISTANCE: (J6-J3)=(J2-J1)  
: 1.35 ohms Max.
- 6.0 RETURN LOSS: (P4-P6)=100 OHMS AND (P1-P3)=100 OHMS REF.  
1MHz TO 30MHz  
60MHz TO 80MHz  
: -18dB MIN.  
: -12dB MIN.
- NOTE: 100 OHMS CONNECTED TO (J2-J1) OR (J6-J3).
- 7.0 DIELECTRIC WITHSTAND: (J1, J2) TO (P1, P3)  
(J3, J6) TO (P4, P6)  
: 1500 Vrms  
: 1500 Vrms
- 8.0 INSERTION LOSS: RS=RL=100 ohms  
100KHz TO 100MHz  
: -1.1 dB MAX
- 9.0 RISE TIME: RS=100 OHMS AND RL = 100 OHMS  
OUTPUT VOLTAGE = 1 V peak  
PULSE WIDTH= 112ns  
: 3.0 nS MAX  
: 3.0 nS MAX
- 10.0 CROSS TALK: 1-100 MHz  
: -33 dB MIN
- 11.0 COMMON TO COMMON MODE ATTENUATION: 30MHz TO 100MHz: -35dB MIN
- 12.0 OPERATING TEMPERATURE RANGE: 0°C TO 70°C

PINS SCHEMATIC RJ45



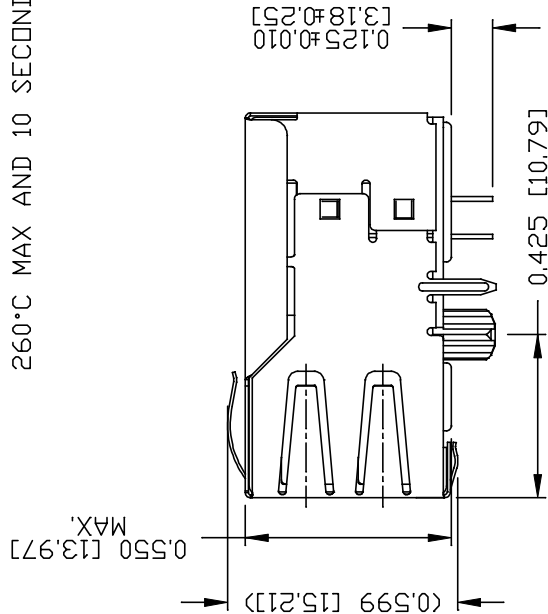
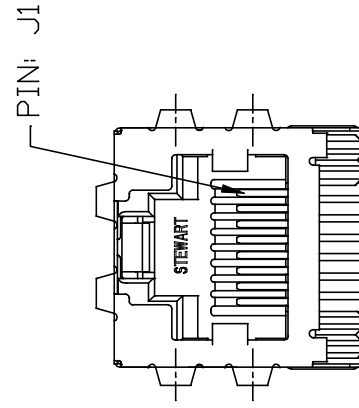
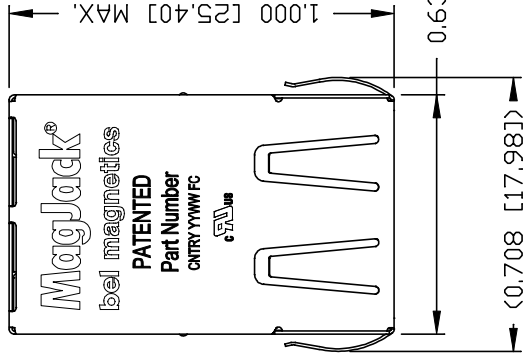
### NOTES

1.0 PINS WITHOUT ELECTRICAL CONNECTION ARE OMITTED.

ORIGINATED BY CHOW WANCHUNG DATE 2020-06-29		TITLE  MagJack® 10/100 BT TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-80012-F		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
DRAWN BY XIE YIMING DATE 2020-06-29			FILE NAME SI-80012-F_B.DWG	X		UNIT : INCH [mm]		
				XX		SCALE : N/A		
			XXX			SIZE : A4		
								
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NOTES:

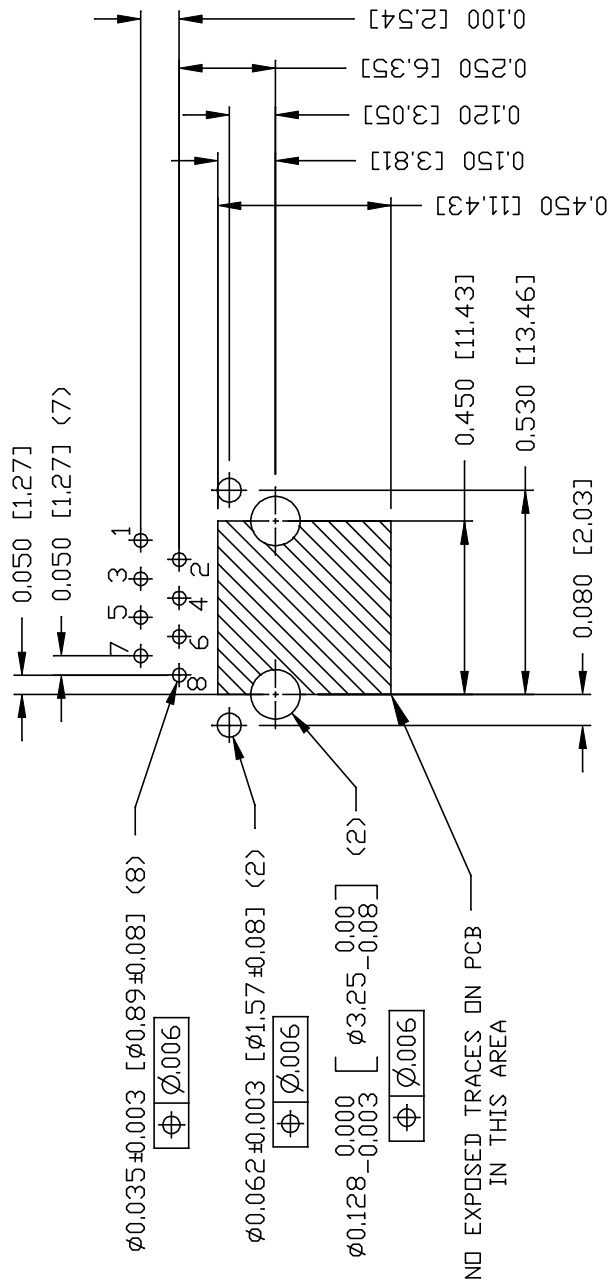
- CONNECTOR MATERIALS:  
HOUSING: THERMOPLASTIC UL94 V-0  
CONTACT/SHIELD: COPPER ALLOY  
SHIELD PLATING: NICKEL OR TIN  
CONTACT PLATING: SELECTIVE GOLD IN CONTACT AREA.
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED.  
SEE ELECTRICAL DRAWING FOR OMITTED PINS.
- TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS.
- THE PRODUCT IS RoHS COMPLIANT.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING.  
THE SUGGESTED PEAK WAVE SOLDERING CONDITION IS 260°C MAX AND 10 SECONDS MAX.

UL US UL RECOGNIZED - FILE #E474585.




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<b>ORIGINATED BY</b> SANDY LIN <b>DATE</b> 2020-06-29 <b>DRAWN BY</b> RUAN WENJUN <b>DATE</b> 2020-06-29	<b>TITLE</b> MagJack® 10/100 BT TAB UP, SHIELDED PATENTED	<b>PART NO. / DRAWING NO.</b> SI-80012-F <b>FILE NAME</b> SI-80012-F_B.DWG
<b>STANDARD DIM.</b> TOL. IN INCH X XX XXX	<b>[ ] METRIC DIM.</b> AS REF. UNIT : INCH [mm] SCALE : N/A SIZE : A4	<b>XX</b> ±0.005 <b>XXX</b> ±0.005

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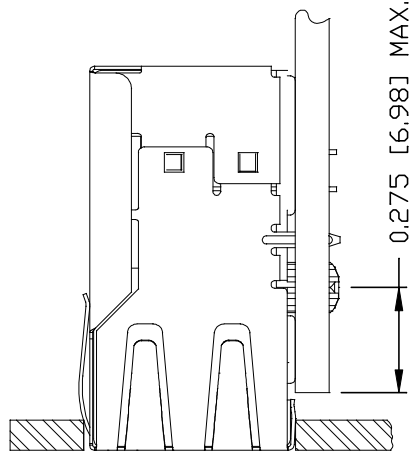
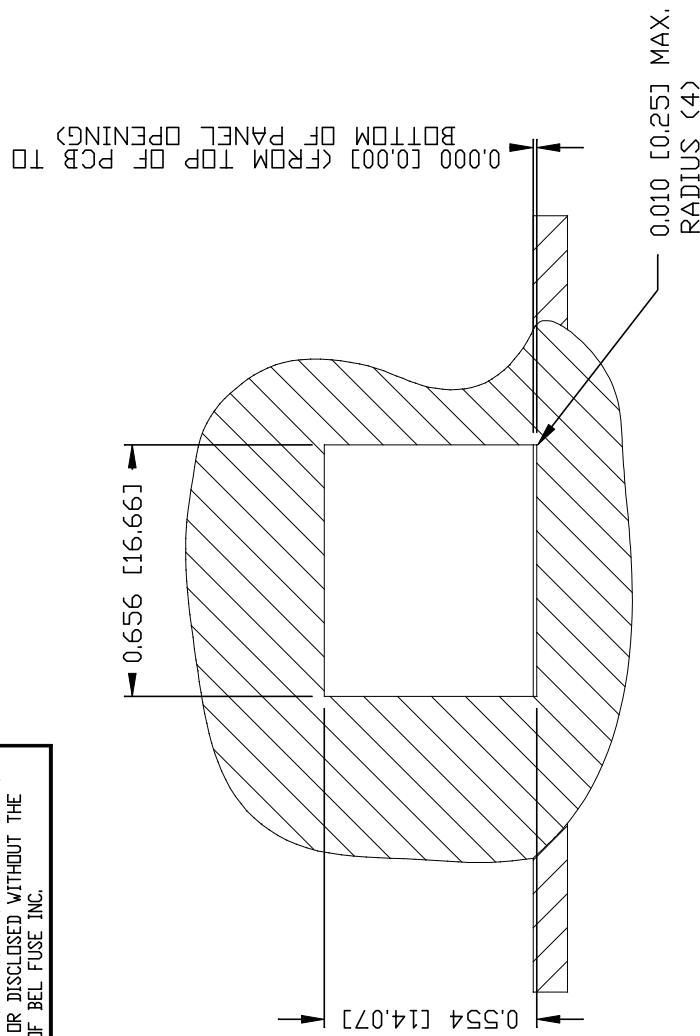
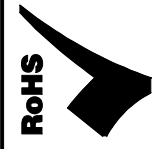
P.C.B. RECOMMENDED HOLE LAYOUT  
SEEN FROM COMPONENT SIDE

ALL CENTERLINE DIMENSIONS ARE BASIC

ORIGINATED BY SANDY LIN DATE 2020-06-29		TITLE MagJack® 10/100 BT TAB UP, SHIELDED PATENTED		PART NO. / DRAWING NO. SI-80012-F		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.		REV. : B PAGE : 4	
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SUGGESTED PANEL OPENING

NOTES:

THE SUGGESTED PANEL OPENING IS INTENDED  
TO GIVE THE USER THE ABILITY TO HAVE  
REASONABLE JACK / PANEL CLEARANCES  
YET MAINTAIN RELIABLE GROUNDING  
CAPABILITY.

Additional Resources: [Product Page](#) [Technical Documentation](#)

ORIGINATED BY SANDY LIN DATE 2020-06-29		TITLE  Ma9Jack® 10/100 BT TAB UP, SHIELDED PATENTED	PART NO. / DRAWING NO. SI-80012-F		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REF.	
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REV. : B			PAGE : 5			 <b>MAGNETIC SOLUTIONS</b> a bel group		

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